



Attorney Docket No. VTI011A (OLD)
IMMR-056/00US (NEW)

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Ron CARMEL, et al.

Serial No.: 09/675,811

Examiner: Unassigned

Confirmation No.: 1164

Art Unit: Unassigned

Filed: September 29, 2000

For: SYSTEM, METHOD AND DATA STRUCTURE FOR SIMULATED
INTERACTION WITH GRAPHICAL OBJECTS

Commissioner for Patents
Washington, D.C. 20231

RECEIVED

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Technology Center 2100

**REVOCATION AND NEW POWER BY ASSIGNEE
AND STATEMENT UNDER 37 C.F.R. §3.73(b)**

The Assignee (Immersion Corporation) of the entire right, title, and interest in the above-identified application hereby revokes all previously granted powers and grants the registered practitioners of Cooley Godward LLP included in Customer Number (1), and the registered practitioners of Immersion Corporation included in Customer Number (2) provided below, power to act, prosecute, and transact all business in the U.S. Patent and Trademark Office in connection with this application, any applications claiming priority to this application, and any patents issuing therefrom.

The Assignee certifies that to the best of its knowledge and belief it is the owner of the entire right, title, and interest in and to the above-identified application as evidenced by:

- ☒ Assignment documents, copies of which are enclosed herewith;
- ☐ An assignment previously recorded in the U.S. Patent and Trademark Office at Reel/Frame _____.

Please change the attorney docket number of the above application to:

IMMR-056/00US

Please direct all telephone calls and correspondence to:

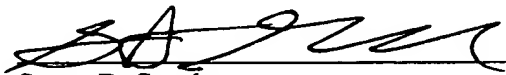
Cooley Godward LLP
ATTN: Patent Group
11951 Freedom Drive
One Freedom Square-Reston Town Center
Reston, VA 20190-5656
Telephone: (703) 456-8000
Facsimile: (703) 456-8100

CUSTOMER NUMBER (1): 22903

CUSTOMER NUMBER (2): 34300

Pursuant to 37 CFR § 3.73(b)(2)(i), the undersigned is authorized to act on behalf of the assignee.

Date: 3/13/2003

Signature: 

Stuart D. Smolen
Director of Intellectual Property
Immersion Corporation

ASSIGNMENT OF PATENT APPLICATION

(Not Accompanying Application)

Whereas Virtual Technologies, Inc., a California corporation with a place of business at 801 Fox Lane, San Jose, CA 95131-1601, owns all right, title and interest to certain new and useful improvements for which have been executed applications for United States Letters Patents as set forth in the patents and patent applications listed in the attached APPENDIX A.

The undersigned duly authorized representative of Virtual Technologies, Inc. hereby:

- 1) Sell(s), assign(s) and transfer(s) to Immersion Corporation, a Delaware corporation having a place of business at 801 Fox Lane, San Jose, CA 95131, (hereinafter referred to as "ASSIGNEE"), the entire right, title and interest in any and all improvements and inventions disclosed in, application(s) (including foreign applications) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the patents and patent applications listed in the attached APPENDIX A.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said applications or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said applications and patents, as well as any derivative and applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications and patents.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representative, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that Virtual Technologies, Inc. has not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Virtual Technologies, Inc.

Victor Viegas
Signature

Victor Viegas
Printed Name

Chief Financial Officer
Title

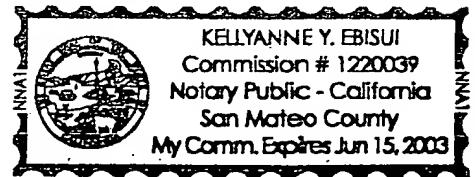
August 19, 2002
Date

State of California)
County of Santa Clara)
_____)

On this 19th day of August, in the year 2002, before me, Kellyanne Y. Ebisui,
Notary Public, personally appeared Victor Viegas, ~~personally known to me or~~ proved to me on
the basis of satisfactory evidence to be the person whose name is subscribed to the within
instrument, and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized
capacity(ies), and that by his/~~her~~ signature on the instrument the person, or the entity/~~ies~~ upon
behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Kellyanne Y. Ebisui



(SEAL)

APPENDIX A

| Title | Application/Patent No. | Filing/Issue Date |
|--|-------------------------------|--------------------------|
| Force Feedback and Textures Simulating | 5,184,319 | February 2, 1993 |
| Force Feedback and Textures Simulating | 07/929,895 | August 10, 1992 |
| Force Feedback and Textures Simulating | 5,631,861 | May 20, 1997 |
| Force Feedback and Textures Simulating | 6,059,506 | May 9, 2000 |
| Force Feedback and Textures Simulating | 09/439,766 | November 15, 1999 |
| Determination of Kinematically Constrained Multi-Articulated Structures | 07/909,570 | July 6, 1992 |
| Determination of Kinematically Constrained Multi-Articulated Structures | 5,676,157 | October 14, 1997 |
| Determination of Kinematically Constrained Multi-Articulated Structures | 6,162,190 | December 19, 2000 |
| Determination of Kinematically Constrained Multi-Articulated Structures | 09/730,056 | December 5, 2000 |
| Determination of Thumb Position Using Measurements of Abduction and Rotation | 5,482,056 | January 9, 1996 |
| Accurate, Rapid, Reliable Position Sensing Using Multiple Sensing Technologies | 5,592,401 | January 7, 1997 |
| Accurate, Rapid, Reliable Position Sensing Using Multiple Sensing Technologies | 5,930,741 | July 27, 1999 |
| Accurate, Rapid, Reliable Position Sensing Using Multiple Sensing Technologies | 6,148,280 | November 14, 2000 |
| Accurate, Rapid, Reliable Position Sensing Using Multiple Sensing Technologies | 09/712,046 | November 13, 2000 |
| Forearm-Supported Exoskeletal Hand-Tracking Device | 6,104,379 | August 15, 2000 |

| | | |
|--|------------|--------------------|
| Forearm-Supported Exoskeletal Hand-Tracking Device | 09/565,907 | May 5, 2000 |
| Goniometer-Based Body-Tracking Device and Method | 6,050,962 | April 18, 2000 |
| Goniometer-Based Body-Tracking Device and Method | 6,428,490 | August 6, 2002 |
| Force-Feedback Interface Device for the Hand | 6,042,555 | March 28, 2000 |
| Force-Feedback Interface Device for the Hand | 6,413,229 | July 2, 2002 |
| Exoskeleton Device for Directly Measuring Fingertip Position and Inferring Finger Joint Angle | 6,110,130 | August 29, 2002 |
| Exoskeleton Device for Directly Measuring Fingertip Position and Inferring Finger Joint Angle | 09/565,730 | May 5, 2000 |
| System and Method for Constraining a Graphical Hand from Penetrating Simulated Graphical Objects | 09/432,362 | November 3, 1999 |
| System, Method and Data Structure for Simulated Interaction with Graphical Objects | 09/675,811 | September 29, 2000 |
| Interface for Controlling a Graphical Image | 09/837,860 | April 17, 2001 |
| Real Time Determination of Simulated Interactions for Large Systems | 09/912,434 | July 24, 2001 |
| Position Sensor with Resistive Element | 09/894,985 | June 27, 2001 |

ASSIGNMENT OF PATENT APPLICATION

(Not Accompanying Application)

Whereas I/we the undersigned inventor(s) have invented certain new and useful improvements as set forth in the patent application entitled:

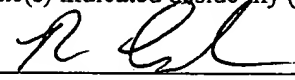
SYSTEM, METHOD AND DATA STRUCTURE FOR SIMULATED INTERACTION WITH GRAPHICAL OBJECTS

for which I (we) have executed an application for a United States Letters Patent which was filed in the U.S. Patent and Trademark Office on September 29, 2000, and which bears the Application No. 09/675,811.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We the undersigned inventor(s) hereby:

- 1) Sell(s), assign(s) and transfer(s) to Virtual Technologies, Inc., a corporation of the state of California, having a place of business at 2175 Park Boulevard, Palo Alto, California 94306, (hereinafter referred to as "ASSIGNEE"), the entire right title and interest in any and all improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application.
- 2) Authorize and request the Commissioner for Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative and applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I/we have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Signed on the date(s) indicated beside my (our) signature(s).

- | | | |
|----|---|------------------------|
| 1) | Signature: <u></u> | Date: <u>4/16/2001</u> |
| | Typed Name: <u>Ronald Carmel</u> <u>RC</u> | |
| | <u>Ron</u> <u>4/16</u> | |
| 2) | Signature: _____ | Date: _____ |
| | Typed Name: <u>Hugo J.C. DesRosiers</u> | |
| 3) | Signature: _____ | Date: _____ |
| | Typed Name: <u>Daniel Gomez</u> | |
| 4) | Signature: _____ | Date: _____ |
| | Typed Name: <u>James F. Kramer</u> | |
| 5) | Signature: _____ | Date: _____ |
| | Typed Name: <u>Jerry Tian</u> | |
| 6) | Signature: _____ | Date: _____ |
| | Typed Name: <u>Marc Tremblay</u> | |
| 7) | Signature: _____ | Date: _____ |
| | Typed Name: <u>Christopher J. Ullrich</u> | |

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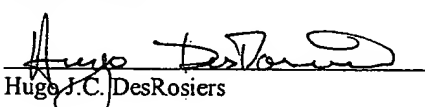
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| 1) | Signature: _____ Typed Name: <u>Ronald Carmel</u> | Date: _____ |
| 2) | Signature:  Typed Name: <u>Hugo J.C. DesRosiers</u> | Date: <u>2001/04/17</u> |
| 3) | Signature: _____ Typed Name: <u>Daniel Gomez</u> | Date: _____ |
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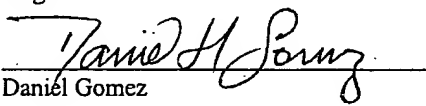
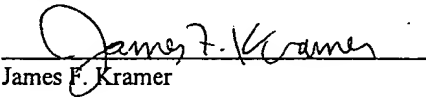
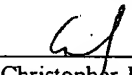
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| 2) | Signature: _____ Typed Name: Hugo J.C. DesRosiers | Date: _____ |
| 3) | Signature: <u></u> Typed Name: Daniel Gomez | Date: <u>3-22-01</u> |
| 4) | Signature: <u></u> Typed Name: James F. Kramer | Date: <u>3/22/01</u> |
| 5) | Signature: _____ Typed Name: Jerry Tian | Date: _____ |
| 6) | Signature: _____ Typed Name: Marc Tremblay | Date: _____ |
| 7) | Signature: <u></u> Typed Name: Christopher J. Ullrich | Date: <u>3/22/01</u> |

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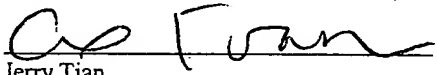
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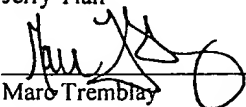
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